

# SCORE Search Results Details for Application 09961086 and Search Result 20090302\_142103\_us-09-961-086a-1.ra1.

<a href="#">Score Home</a>	<a href="#">Retrieve Application</a>	<a href="#">SCORE System</a>	<a href="#">SCORE</a>	<a href="#">Comments /</a>
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This page gives you Search Results detail for the Application 09961086 and Search Result 20090302\_142103\_us-09-961-086a-1.ra1.

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OM protein - protein search, using sw model

Run on: March 3, 2009, 03:46:14 ; Search time 207 Seconds  
(without alignments)  
681.331 Million cell updates/sec

Title: US-09-961-086A-1  
Perfect score: 3352  
Sequence: 1 MSSSNVEVFIPVSQGNNGF.....MIVIFLTIAYLKLFLKKYS 655

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1316349 seqs, 215321474 residues

Total number of hits satisfying chosen parameters: 1316349

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued\_Patents\_AA:\*

- 1: /ABSS/Data/CRF/ptodata/1/iaa/5\_COMB.pep:\*
- 2: /ABSS/Data/CRF/ptodata/1/iaa/6\_COMB.pep:\*
- 3: /ABSS/Data/CRF/ptodata/1/iaa/7\_COMB.pep:\*
- 4: /ABSS/Data/CRF/ptodata/1/iaa/H\_COMB.pep:\*
- 5: /ABSS/Data/CRF/ptodata/1/iaa/PCTUS\_COMB.pep:\*
- 6: /ABSS/Data/CRF/ptodata/1/iaa/RE\_COMB.pep:\*
- 7: /ABSS/Data/CRF/ptodata/1/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed,

and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	3352	100.0	655	2	US-09-245-808-1	Sequence 1, Appli
2	3346	99.8	655	3	US-11-333-542-6	Sequence 6, Appli
3	3342	99.7	655	3	US-11-333-542-8	Sequence 8, Appli
4	3331	99.4	655	2	US-09-767-594-1	Sequence 1, Appli
5	3331	99.4	655	2	US-09-584-586-10	Sequence 10, Appl
6	3331	99.4	655	3	US-09-856-927-2	Sequence 2, Appli
7	3331	99.4	655	3	US-11-333-542-7	Sequence 7, Appli
8	3225	96.2	655	3	US-11-333-542-2	Sequence 2, Appli
9	3223.5	96.2	654	3	US-11-333-542-5	Sequence 5, Appli
10	2757	82.2	657	2	US-09-584-586-14	Sequence 14, Appl
11	835.5	24.9	1049	2	US-09-538-092-72	Sequence 72, Appl
12	835.5	24.9	1049	3	US-10-369-493-1520	Sequence 1520, Ap
13	812	24.2	687	3	US-09-619-049-264	Sequence 264, App
14	795.5	23.7	676	3	US-10-369-493-3799	Sequence 3799, Ap
15	706.5	21.1	674	2	US-09-538-092-1125	Sequence 1125, Ap
16	702.5	21.0	663	3	US-10-473-696-6	Sequence 6, Appli
17	702.5	21.0	663	3	US-11-567-079-6	Sequence 6, Appli
18	693.5	20.7	652	2	US-09-989-981A-2	Sequence 2, Appli
19	693.5	20.7	652	3	US-09-837-992-1	Sequence 1, Appli
20	693.5	20.7	652	3	US-11-128-026-1	Sequence 1, Appli
21	682.5	20.4	651	2	US-09-989-981A-6	Sequence 6, Appli
22	682.5	20.4	651	3	US-09-837-992-3	Sequence 3, Appli
23	682.5	20.4	651	3	US-11-128-026-3	Sequence 3, Appli
24	677	20.2	559	3	US-10-369-493-5740	Sequence 5740, Ap
25	664	19.8	608	3	US-10-369-493-5748	Sequence 5748, Ap
26	658.5	19.6	1095	3	US-10-369-493-2025	Sequence 2025, Ap
27	657.5	19.6	672	2	US-09-989-981A-4	Sequence 4, Appli
28	640.5	19.1	673	2	US-09-989-981A-8	Sequence 8, Appli
29	639	19.1	658	3	US-10-369-493-5347	Sequence 5347, Ap
30	636.5	19.0	639	3	US-10-369-493-6184	Sequence 6184, Ap
31	636.5	19.0	695	3	US-10-369-493-6199	Sequence 6199, Ap
32	627.5	18.7	610	3	US-10-369-493-5687	Sequence 5687, Ap
33	623	18.6	147	2	US-09-584-586-12	Sequence 12, Appl
34	623	18.6	147	3	US-09-856-927-4	Sequence 4, Appli
35	612.5	18.3	1501	2	US-09-487-558B-346	Sequence 346, App
36	612.5	18.3	1501	3	US-10-369-493-1606	Sequence 1606, Ap
37	602	18.0	1511	2	US-09-487-558B-250	Sequence 250, App
38	602	18.0	1511	3	US-10-369-493-22380	Sequence 22380, A
39	594	17.7	1564	2	US-09-487-558B-244	Sequence 244, App
40	594	17.7	1564	3	US-10-369-493-22424	Sequence 22424, A
41	589	17.6	1549	3	US-10-369-493-3919	Sequence 3919, Ap
42	580.5	17.3	1529	3	US-10-369-493-1692	Sequence 1692, Ap
43	567	16.9	617	2	US-09-614-912-138	Sequence 138, App
44	561.5	16.8	1395	3	US-10-369-493-4054	Sequence 4054, Ap
45	552.5	16.5	611	3	US-10-369-493-12397	Sequence 12397, A

## ALIGNMENTS

## RESULT 1

US-09-245-808-1

; Sequence 1, Application US/09245808  
 ; Patent No. 6313277  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Doyle, L. Austin  
 ; APPLICANT: Abruzzo, Lynne V.  
 ; APPLICANT: Ross, Douglas D.  
 ; TITLE OF INVENTION: Breast Cancer Resistance Protein (BCRP) and DNA which  
 ; TITLE OF INVENTION: encodes it  
 ; FILE REFERENCE: Ross UMb conversion  
 ; CURRENT APPLICATION NUMBER: US/09/245,808  
 ; CURRENT FILING DATE: 1999-02-05  
 ; EARLIER APPLICATION NUMBER: 60/073763  
 ; EARLIER FILING DATE: 1998-02-05  
 ; NUMBER OF SEQ ID NOS: 7  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 1  
 ; LENGTH: 655  
 ; TYPE: PRT  
 ; ORGANISM: Human MCF-7/AdrVp cells

US-09-245-808-1

Query Match 100.0%; Score 3352; DB 2; Length 655;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 655; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MSSSNVEVFIPVSQGNINGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE	60
Db	1	MSSSNVEVFIPVSQGNINGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE	60
Qy	61	KEILSNINGIMKPLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN	120
Db	61	KEILSNINGIMKPLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN	120
Qy	121	SGYVVQDDVVMGTLTVRENLFQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Db	121	SGYVVQDDVVMGTLTVRENLFQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Qy	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF	240
Db	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF	240
Qy	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Db	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300

Qy	301	DSTAVALNREEDFKATEIIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360
Db	301	DSTAVALNREEDFKATEIIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360
Qy	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKND	420
Db	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKND	420
Qy	421	TGIQNRAGVLFLLTTNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Db	421	TGIQNRAGVLFLLTTNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Qy	481	MTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVSVATLL	540
Db	481	MTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVSVATLL	540
Qy	541	MTICFVFMIMFSGLLVNLTTIASWSLWLYQYFSIPRYGFTALQHNEFLGQNFPCPLNATGN	600
Db	541	MTICFVFMIMFSGLLVNLTTIASWSLWLYQYFSIPRYGFTALQHNEFLGQNFPCPLNATGN	600
Qy	601	NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLFLKLYS	655
Db	601	NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLFLKLYS	655

## RESULT 2

US-11-333-542-6

; Sequence 6, Application US/11333542

; Patent No. 7465788

; GENERAL INFORMATION:

; APPLICANT: TAKEBE, NAKO

; TITLE OF INVENTION: RHESUS BCRP AND ANTIBODIES THERETO

; FILE REFERENCE: UNIMD-0016

; CURRENT APPLICATION NUMBER: US/11/333,542

; CURRENT FILING DATE: 2006-01-18

; PRIOR APPLICATION NUMBER: 60/644,706

; PRIOR FILING DATE: 2005-01-18

; NUMBER OF SEQ ID NOS: 13

; SOFTWARE: PatentIn Ver. 3.3

; SEQ ID NO 6

; LENGTH: 655

; TYPE: PRT

; ORGANISM: Homo sapiens

US-11-333-542-6

Query Match 99.8%; Score 3346; DB 3; Length 655;

Best Local Similarity 99.8%; Pred. No. 0;

Matches 654; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy	1	MSSSNVEVFIPVSGQNGTNGFPATASNDLKAFTEGAVLSFHNICRYVKLKSGFLPCRKPVE	60
Db	1	MSSSNVEVFIPVSGQNGTNGFPATASNDLKAFTEGAVLSFHNICRYVKLKSGFLPCRKPVE	60

Qy	61	KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAAARKDPSGLSGDVLINGAPRPANFKCN	120
Db	61	KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAAARKDPSGLSGDVLINGAPRPANFKCN	120
Qy	121	SGYVVQDDVVMGTLTVRENILQFSAAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Db	121	SGYVVQDDVVMGTLTVRENILQFSAAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Qy	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF	240
Db	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF	240
Qy	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Db	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Qy	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKK	360
Db	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKK	360
Qy	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKND	420
Db	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKND	420
Qy	421	TGIQNRAGVLFFLTITNQCFSVSVALEFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Db	421	TGIQNRAGVLFFLTITNQCFSVSVALEFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Qy	481	MTMLPSIIFTCTIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVSVATLL	540
Db	481	MRMLPSIIFTCTIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVSVATLL	540
Qy	541	MTICFVFMIFSGLLVNLTTIASWLSWLQYFSPRYGFTALQHNEFLGQNFPCPLNATGN	600
Db	541	MTICFVFMIFSGLLVNLTTIASWLSWLQYFSPRYGFTALQHNEFLGQNFPCPLNATGN	600
Qy	601	NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLFLKKEYS	655
Db	601	NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLFLKKEYS	655

RESULT 3

US-11-333-542-8

; Sequence 8, Application US/11333542

; Patent No. 7465788

; GENERAL INFORMATION:

; APPLICANT: TAKEBE, NAKO

; TITLE OF INVENTION: RHESUS BCRP AND ANTIBODIES THERETO

; FILE REFERENCE: UNIMD-0016

; CURRENT APPLICATION NUMBER: US/11/333,542

; CURRENT FILING DATE: 2006-01-18

; PRIOR APPLICATION NUMBER: 60/644,706  
 ; PRIOR FILING DATE: 2005-01-18  
 ; NUMBER OF SEQ ID NOS: 13  
 ; SOFTWARE: PatentIn Ver. 3.3  
 ; SEQ ID NO 8  
 ; LENGTH: 655  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-11-333-542-8

Query Match 99.7%; Score 3342; DB 3; Length 655;  
 Best Local Similarity 99.7%; Pred. No. 0;  
 Matches 653; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy	1	MSSSNVEVFIPVQSQGNINGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE	60
Db	1	MSSSNVEVFIPVQSQGNINGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE	60
Qy	61	KEILSNINGIMKPLGNAILGPTGGGKSSLLDVLAAARKDPSGLSGDVLINGAPRPANFKCN	120
Db	61	KEILSNINGIMKPLGNAILGPTGGGKSSLLDVLAAARKDPSGLSGDVLINGAPRPANFKCN	120
Qy	121	SGYVVQDDVVMGTLTVRENLFQSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Db	121	SGYVVQDDVVMGTLTVRENLFQSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Qy	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF	240
Db	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF	240
Qy	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Db	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Qy	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAIEYVNSSFYKETKAELHQLSGGEKKKK	360
Db	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAIEYVNSSFYKETKAELHQLSGGEKKKK	360
Qy	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKND	420
Db	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKND	420
Qy	421	TGIQNRAGVLFPLTTNQCFSSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDDL	480
Db	421	TGIQNRAGVLFPLTTNQCFSSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDDL	480
Qy	481	MTMLPSIIFTICIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVSVATLL	540
Db	481	MRMLPSIIFTICIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVSVATLL	540
Qy	541	MTICFVFMIMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFPCPLNATGN	600

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Db          541 MTICFVFMIMFISGLLVNLTIIASWLSWLQYFSIPRYGFTALQHNEFLGQNFPCPLNATGN 600
Qy          601 NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTTIAYLKLFLKLYS 655
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Db          601 NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTTIAYLKLFLKLYS 655

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## RESULT 4

US-09-767-594-1

```

; Sequence 1, Application US/09767594
; Patent No. 6521635
; GENERAL INFORMATION:
; APPLICANT: Bates, Susan
; APPLICANT: Robey, Robert
; APPLICANT: The Government of the United States of America
; APPLICANT: as represented by the Secretary of the
; APPLICANT: Department of Health and Human Services
; TITLE OF INVENTION: Inhibition of MXR Transport by Acridine Derivatives
; FILE REFERENCE: 015280-402100US
; CURRENT APPLICATION NUMBER: US/09/767,594
; CURRENT FILING DATE: 2001-01-22
; PRIOR APPLICATION NUMBER: US 60/177,410
; PRIOR FILING DATE: 2000-01-20
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 655
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: human mitoxanthrone resistance (MXR)/BRCP/ABCP
; OTHER INFORMATION: protein
US-09-767-594-1

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Query Match          99.4%; Score 3331; DB 2; Length 655;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 651; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

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Qy          1 MSSSNVEVFIPVSQGNINGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE 60
            |||
Db          1 MSSSNVEVFIPVSQGNINGFPATVSNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE 60

Qy          61 KEILSNINGIMKPLNAILGPTGGGKSSLLDVLAAKDPDPSGLSGDVLINGAPRPANFKCN 120
            |||
Db          61 KEILSNINGIMKPLNAILGPTGGGKSSLLDVLAAKDPDPSGLSGDVLINGAPRPANFKCN 120

Qy          121 SGYVVQDDVVMGTLTVRENILQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT 180
            |||
Db          121 SGYVVQDDVVMGTLTVRENILQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT 180

Qy          181 QFIRGVSGGERKRTSIGMELITDPSILFDEPTTGLDSSSTANAVLLLLKRMSKQGRTIIF 240
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Db      181  QFIRGVSGGERKRTSIGMELITDPSILSLDEPTTGLDSSTANAVLLLLKRMKQGRTIIF  240
Qy      241  SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING  300
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      241  SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING  300
Qy      301  DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK  360
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      301  DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK  360
Qy      361  IITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKND  420
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      361  IITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKND  420
Qy      421  TGIQNRAGVLFFLTITNQCFSSVSARELVFVEKKLFIHEYISGYRVSSYFLGKLLSDLLP  480
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      421  TGIQNRAGVLFFLTITNQCFSSVSARELVFVEKKLFIHEYISGYRVSSYFLGKLLSDLLP  480
Qy      481  MTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVSVATLL  540
      | ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      481  MRMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVSVATLL  540
Qy      541  MTICFVFMIMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFPCPLNATGN  600
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Db      541  MTICFVFMIMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFPCPLNATGN  600
Qy      601  NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLFLKKY  655
      ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      601  NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLFLKKY  655

```

## RESULT 5

US-09-584-586-10

; Sequence 10, Application US/09584586

; Patent No. 6933150

; GENERAL INFORMATION:

; APPLICANT: Sorrentino, Brian

; APPLICANT: Bunting, Kevin

; TITLE OF INVENTION: EXPANSION OF HEMATOPOIETIC STEM CELLS TRANSDUCED WITH

; TITLE OF INVENTION: MDR-1 METHODS OF USE THEREOF

; FILE REFERENCE: 1340-1-021CIP

; CURRENT APPLICATION NUMBER: US/09/584,586

; CURRENT FILING DATE: 2000-05-31

; EARLIER APPLICATION NUMBER: US 60/086,988

; EARLIER FILING DATE: 1998-05-28

; EARLIER APPLICATION NUMBER: PCT/US99/11825

; EARLIER FILING DATE: 1999-05-27

; NUMBER OF SEQ ID NOS: 16

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 10

; LENGTH: 655

; TYPE: PRT

; ORGANISM: Homo sapiens  
US-09-584-586-10

Query Match 99.4%; Score 3331; DB 2; Length 655;  
Best Local Similarity 99.4%; Pred. No. 0;  
Matches 651; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy	1	MSSSNVEVFIPVSGQNGTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE	60
Db	1	MSSSNVEVFIPVSGQNGTNGFPATVSNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE	60
Qy	61	KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAAKDPDPSGLSGDVLINGAPRPANFKCN	120
Db	61	KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAAKDPDPSGLSGDVLINGAPRPANFKCN	120
Qy	121	SGYVVQDDVVMGILTVRENLFQSAALRLATTMTNHEKNERINRVIELGLDKVADSKVGT	180
Db	121	SGYVVQDDVVMGILTVRENLFQSAALRLATTMTNHEKNERINRVIEELGLDKVADSKVGT	180
Qy	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMKSKQGRTIIF	240
Db	181	QFIRGVSGGERKRTSIGMELITDPSILSLDEPTTGLDSSTANAVLLLLKRMKSKQGRTIIF	240
Qy	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Db	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Qy	301	DSTAVALNREEDFKATEIIIEPSKQDKPLIEKLAIEYVNSSFYKETKAELHQLSGGEKKK	360
Db	301	DSTAVALNREEDFKATEIIIEPSKQDKPLIEKLAIEYVNSSFYKETKAELHQLSGGEKKK	360
Qy	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFLGNDS	420
Db	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFLGNDS	420
Qy	421	TGIQNRAGVLFLLTTNQCFSSVSARELVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Db	421	TGIQNRAGVLFLLTTNQCFSSVSARELVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Qy	481	MTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVSVATLL	540
Db	481	MRMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVSVATLL	540
Qy	541	MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFPCPLNATGN	600
Db	541	MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFPCPLNATGN	600
Qy	601	NPCNYATCTGEEYLVKQIDLSPWGLWKNHVALACMIVIFLTIAYLKLFLKKYS	655
Db	601	NPCNYATCTGEEYLVKQIDLSPWGLWKNHVALACMIVIFLTIAYLKLFLKKYS	655

RESULT 6  
 US-09-856-927-2  
 ; Sequence 2, Application US/09856927  
 ; Patent No. 7138493  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Dean, Michael  
 ; APPLICANT: Allikmets, Rando  
 ; APPLICANT: Bates, Susan E.  
 ; APPLICANT: Fojo, Antonio T.  
 ; APPLICANT: The Government of the United States of America  
 ; APPLICANT: as represented by the Secretary of the  
 ; APPLICANT: Department of Health and Human Services  
 ; TITLE OF INVENTION: A No. 7138493el ATP-Binding Cassette Protein Responsible for  
 ; TITLE OF INVENTION: Cytotoxin Resistance  
 ; FILE REFERENCE: 015280-382100US  
 ; CURRENT APPLICATION NUMBER: US/09/856,927  
 ; CURRENT FILING DATE: 2001-05-29  
 ; PRIOR APPLICATION NUMBER: US 60/110,473  
 ; PRIOR FILING DATE: 1998-11-30  
 ; PRIOR APPLICATION NUMBER: WO PCT/US99/28107  
 ; PRIOR FILING DATE: 1999-11-24  
 ; NUMBER OF SEQ ID NOS: 6  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 2  
 ; LENGTH: 655  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-09-856-927-2

Query Match 99.4%; Score 3331; DB 3; Length 655;  
 Best Local Similarity 99.4%; Pred. No. 0;  
 Matches 651; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy	1	MSSSNVEVFIPVSQGGNNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE	60
Db	1	MSSSNVEVFIPVSQGGNNGFPATVSNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE	60
Qy	61	KEILSNINGIMKPLGNAILGPTGGGKSSLLDVLAAKDPSSGLSGDVLINGAPRPANFKCN	120
Db	61	KEILSNINGIMKPLGNAILGPTGGGKSSLLDVLAAKDPSSGLSGDVLINGAPRPANFKCN	120
Qy	121	SGYVVQDDVVMGTLTVRENQLQFSAALRLATTMTNHEKNERINRVIELGLDKVADSKVGT	180
Db	121	SGYVVQDDVVMGTLTVRENQLQFSAALRLATTMTNHEKNERINRVIEELGLDKVADSKVGT	180
Qy	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMKSKQGRTIIF	240
Db	181	QFIRGVSGGERKRTSIGMELITDPSILSLDEPTTGLDSSTANAVLLLLKRMKSKQGRTIIF	240
Qy	241	SIHQPRYSIFKFLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Db	241	SIHQPRYSIFKFLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300

```

Qy      301 DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAIEYVNSSFFYKETKAELHQLSGGEKKKK 360
        |||
Db      301 DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAIEYVNSSFFYKETKAELHQLSGGEKKKK 360

Qy      361 ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKNDS 420
        |||
Db      361 ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKNDS 420

Qy      421 TGIQNRAGVLFLLTTNQCFSSVSFAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP 480
        |||
Db      421 TGIQNRAGVLFLLTTNQCFSSVSFAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP 480

Qy      481 MTMLPSIIFTTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVSVATLL 540
        |
Db      481 MRMLPSIIFTTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVSVATLL 540

Qy      541 MTICFVFMIFSGLLVNLTTIASWSLWQYFSIPRYGFTALQHNEFLGQNFPCPLNATGN 600
        |||
Db      541 MTICFVFMIFSGLLVNLTTIASWSLWQYFSIPRYGFTALQHNEFLGQNFPCPLNATGN 600

Qy      601 NPCNYATCTGEEYLKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLFLKKYS 655
        |||
Db      601 NPCNYATCTGEEYLKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLFLKKYS 655
    
```

# RESULT 7

US-11-333-542-7

```

; Sequence 7, Application US/11333542
; Patent No. 7465788
; GENERAL INFORMATION:
; APPLICANT: TAKEBE, NAKO
; TITLE OF INVENTION: RHESUS BCRP AND ANTIBODIES THERETO
; FILE REFERENCE: UNIMD-0016
; CURRENT APPLICATION NUMBER: US/11/333,542
; CURRENT FILING DATE: 2006-01-18
; PRIOR APPLICATION NUMBER: 60/644,706
; PRIOR FILING DATE: 2005-01-18
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 7
; LENGTH: 655
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-333-542-7
    
```

```

Query Match          99.4%; Score 3331; DB 3; Length 655;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 651; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
    
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Qy      1 MSSSNVEVFIPVSQGNINGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE 60
        |||
    
```

Db	1	MSSSNVEVFIPVSQGNINGFPATVSNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE	60
Qy	61	KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAAKDPSSGLSGDVLINGAPRPANFKCN	120
Db	61	KEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAAKDPSSGLSGDVLINGAPRPANFKCN	120
Qy	121	SGYVVQDDVVMGTLTVRENLFQSAALRLATTMTNHEKNERINRVIELGLDKVADSKVGT	180
Db	121	SGYVVQDDVVMGTLTVRENLFQSAALRLATTMTNHEKNERINRVIEELGLDKVADSKVGT	180
Qy	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMKSQGRTIIF	240
Db	181	QFIRGVSGGERKRTSIGMELITDPSILSLDEPTTGLDSSTANAVLLLLKRMKSQGRTIIF	240
Qy	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Db	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Qy	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAIEYVNSSFYKETKAELHQLSGGEKKKK	360
Db	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAIEYVNSSFYKETKAELHQLSGGEKKKK	360
Qy	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKND	420
Db	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKND	420
Qy	421	TGIQNRAGVLFLLTTNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Db	421	TGIQNRAGVLFLLTTNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Qy	481	MTMLPSIIFTTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVSVATLL	540
Db	481	MRMLPSIIFTTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVSVATLL	540
Qy	541	MTICFVFMIFSGLLVNLTTIASWLSWLQYFSPRYGFTALQHNEFLGQNFPCPLNATGN	600
Db	541	MTICFVFMIFSGLLVNLTTIASWLSWLQYFSPRYGFTALQHNEFLGQNFPCPLNATGN	600
Qy	601	NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTITAYLKLFLKKYS	655
Db	601	NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTITAYLKLFLKKYS	655

RESULT 8

US-11-333-542-2

; Sequence 2, Application US/11333542

; Patent No. 7465788

; GENERAL INFORMATION:

; APPLICANT: TAKEBE, NAKO

; TITLE OF INVENTION: RHESUS BCRP AND ANTIBODIES THERETO

; FILE REFERENCE: UNIMD-0016

; CURRENT APPLICATION NUMBER: US/11/333,542

; CURRENT FILING DATE: 2006-01-18  
 ; PRIOR APPLICATION NUMBER: 60/644,706  
 ; PRIOR FILING DATE: 2005-01-18  
 ; NUMBER OF SEQ ID NOS: 13  
 ; SOFTWARE: PatentIn Ver. 3.3  
 ; SEQ ID NO 2  
 ; LENGTH: 655  
 ; TYPE: PRT  
 ; ORGANISM: Macaca mulatta  
 US-11-333-542-2

Query Match 96.2%; Score 3225; DB 3; Length 655;  
 Best Local Similarity 96.2%; Pred. No. 0;  
 Matches 630; Conservative 7; Mismatches 18; Indels 0; Gaps 0;

Qy	1	MSSSNVEVFIPVSGQNGTINGFPATASNDLKAFTEGAVLSFHNICYRVKLSGFLPCRKPVE	60
Db	1	MSSSNVEVFIPMSQENINGFPPTTISNDRKAFTGAVLSFHNICYRVKVKSGFLPGRKPVE	60
Qy	61	KEILSNINGIMKPLNAILGPTGGGKSSLLDLVAARKDPSGLSGDVLINGAPRPANFKCN	120
Db	61	KEILSNINGIMKPLNAILGPTGGGKSSLLDLVAARKDPSGLSGDVLINGALRPNTFKCN	120
Qy	121	SGYVVQDDVVMGTLTVRENLFQSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Db	121	SGYVVQDDVVMGTLTVRENLFQSAALRLPTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Qy	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMKSQGRTIIF	240
Db	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMKSQGRTIIF	240
Qy	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Db	241	STHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Qy	301	DSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKK	360
Db	301	DSTAVALNREEDFKATEIIEPSKRDKPLVEKLAEIYVDSPPFYKETKAELHQLSGGEKKKK	360
Qy	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKND	420
Db	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVLGLVIGGIYFGLNND	420
Qy	421	TGIQNRAGVLFLLTTNQCFSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Db	421	TGIQNRAGVLFLLTTNQCFSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLLP	480
Qy	481	MTMLPSIIFTICIVFYMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVSVATLL	540
Db	481	MRMLPSIIFTICIVFYMLGLKPTADAFFIMMFTLMMVAYSASSMALAIAAGQSVSVATLL	540
Qy	541	MTICFVMMIFSGLLVNLTTIASWLSWLQYFIPRYGFTALQHNEFLGQNFPCPLNATGN	600

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|||||
Db      541 MTICFVFMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFPCPLNATVN 600
Qy      601 NPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLFLKLYS 655
      | |||||
Db      601 NTCNYATCTGEEYLTKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLFLKLYS 655

```

## RESULT 9

US-11-333-542-5

; Sequence 5, Application US/11333542

; Patent No. 7465788

; GENERAL INFORMATION:

; APPLICANT: TAKEBE, NAKO

; TITLE OF INVENTION: RHESUS BCRP AND ANTIBODIES THERETO

; FILE REFERENCE: UNIMD-0016

; CURRENT APPLICATION NUMBER: US/11/333,542

; CURRENT FILING DATE: 2006-01-18

; PRIOR APPLICATION NUMBER: 60/644,706

; PRIOR FILING DATE: 2005-01-18

; NUMBER OF SEQ ID NOS: 13

; SOFTWARE: PatentIn Ver. 3.3

; SEQ ID NO 5

; LENGTH: 654

; TYPE: PRT

; ORGANISM: Macaca mulatta

US-11-333-542-5

Query Match 96.2%; Score 3223.5; DB 3; Length 654;  
 Best Local Similarity 96.5%; Pred. No. 0;  
 Matches 632; Conservative 7; Mismatches 15; Indels 1; Gaps 1;

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Qy      1 MSSSNVEVFIIPVSGQNGINGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE 60
      |||||:| ||||| || |||||:|||||
Db      1 MSSSNVEVFIIPMSQENINGFPPTTSSNDRKAFTEGAVLSFHNICYRVKVKSGFLPGRKPVE 60

Qy      61 KEILSNINGIMKPLGNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCN 120
      |||||
Db      61 KEILSNINGIMKPLGNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGALRPNTNFKCN 120

Qy      121 SGYVVQDDVVMGTLTVRENLFQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT 180
      |||||
Db      121 SGYVVQDDVVMGTLTVRENLFQFSAALRLPTTMTNHEKNERINRVIQELGLDKVADSKVGT 180

Qy      181 QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF 240
      |||||
Db      181 QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIF 240

Qy      241 SIHQPRYSIFKFLDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING 300
      |||||
Db      241 SIHQPRYSIFKFLDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING 300

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Qy	301	DSTAVALNREEDFKATEIIIEPSKQDKPLIEKLAIEIYVNSSFYKETKAELHQLSGGEKKK	360
		:    :     :	
Db	301	DSTAVALNREEDFKATEIIIEPSKRDKPLVEKLAIEIYVDSSFYKETKAELHQLSGGE-KKK	359
Qy	361	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVVLGLVIGAIYFGLKND	420
		:	
Db	360	ITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIIVTVILGLVIGAIYFGLNND	419
Qy	421	TGIQNRAGVLFLLTTNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDDL	480
Db	420	TGIQNRAGVLFLLTTNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFFGKLLSDDL	479
Qy	481	MTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVSVATLL	540
Db	480	MRMLPSIIFTCIVYFMLGLKPTADAFFIMMFTLMMVAYSASSMALAIAAGQSVSVATLL	539
Qy	541	MTICFVFMIMFSGLLVNLTTIASWSLSWLQYFSIPRYGFTALQHNEFLGQNFPCPLNATGN	600
Db	540	MTICFVFMIMFSGLLVNLTTIASWSLSWLQYFSIPRYGFTALQHNEFLGQNFPCPLNATVN	599
Qy	601	NPCNYATCTGEEYLKVGQIDLSPWGLWKNHVALACMIVIFLTIAYLKLFLKLYS	655
Db	600	NTCNYATCTGEEYLAQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLFLKLYS	654

# RESULT 10

US-09-584-586-14

; Sequence 14, Application US/09584586

; Patent No. 6933150

; GENERAL INFORMATION:

; APPLICANT: Sorrentino, Brian

; APPLICANT: Bunting, Kevin

; TITLE OF INVENTION: EXPANSION OF HEMATOPOIETIC STEM CELLS TRANSDUCED WITH

; TITLE OF INVENTION: MDR-1 METHODS OF USE THEREOF

; FILE REFERENCE: 1340-1-021CIP

; CURRENT APPLICATION NUMBER: US/09/584,586

; CURRENT FILING DATE: 2000-05-31

; EARLIER APPLICATION NUMBER: US 60/086,988

; EARLIER FILING DATE: 1998-05-28

; EARLIER APPLICATION NUMBER: PCT/US99/11825

; EARLIER FILING DATE: 1999-05-27

; NUMBER OF SEQ ID NOS: 16

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 14

; LENGTH: 657

; TYPE: PRT

; ORGANISM: Mus musculus

US-09-584-586-14

Query Match 82.2%; Score 2757; DB 2; Length 657;

Best Local Similarity 81.5%; Pred. No. 3.4e-278;

Matches 536; Conservative 51; Mismatches 67; Indels 4; Gaps 3;

Qy	1	MSSSNVEVFIPVSQGNINGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE	60
Db	1	: :           : :         :       :	59
Qy	61	KEILSNINGIMKPLGNAILGPTGGGKSSLLDVLAAARKDPSGLSGDVLINGAPRPANFKCN	120
Db	60	KEILSDINGIMKPLGNAILGPTGGGKSSLLDVLAAARKDPKGLSGDVLINGAPQAHFKCC	119
Qy	121	SGYVVQDDVVMGTLTVRENLFQSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGT	180
Db	120	SGYVVQDDVVMGTLTVRENLFQSAALRLPTTMKNHEKNERINTIIKELGLEKVDASKVGT	179
Qy	181	QFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLLRMSKQGRTIIF	240
Db	180	QFIRGISGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLLRMSKQGRTIIF	239
Qy	241	SIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIING	300
Db	240	SIHQPRYSIFKLFDSLTLASGKLVFHGPAQKALEYFASAGYHCEPYNNPADFFLDVING	299
Qy	301	DSTAVALNREE-DFKATEIIEPSKQDKPLIEKLAIEIVNSSFYKETKAELHQLSGGEKKK	359
Db	300	DSSAVMLNREEQDNEANKTEEPSKGEKPVIENTSEFYINSAIYGETKAELDQLPGAQEKK	359
Qy	360	KITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKND	419
Db	360	GTSAPKEPVYVTSFCHQLRWIARRSFKNLLGNPQASVAQLIVTVILGLIIGAIYFDLYD	419
Qy	420	STGIQNRAGVLFLLTTNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDLL	479
Db	420	AAGMQNRAGVLFLLTTNQCFSSVSAVELFVVEKKLFIHEYISGYRVSSYFFGKVMSDL	479
Qy	480	PMTMLPSIIIFTICIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVSVATL	539
Db	480	PMRFLPSVIFTICILYFMLGLKKTVDAFFIMFTLIMVAYTASSMALAIATQSVSVATL	539
Qy	540	LMTICFVMMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFPCPLNATG	599
Db	540	LMTIAFVMMMLFSGLLVNLRTIGPWSWLQYFSIPRYGFTALQYNEFLGQEFPCGFNVTD	599
Qy	600	NNPC--NYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLFLKKYS	655
Db	600	NSTCVNSYAICTGNEYLINQGIELSPWGLWKNHVALACMIIIFLTIAYLKLFLKKYS	657

RESULT 11

US-09-538-092-72

; Sequence 72, Application US/09538092

; Patent No. 6753314

; GENERAL INFORMATION:

; APPLICANT: Giot, Loic

```

; APPLICANT: Mansfield, Traci A.
; TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
; FILE REFERENCE: 15966-542
; CURRENT APPLICATION NUMBER: US/09/538,092
; CURRENT FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/127,352
; PRIOR FILING DATE: 1999-04-01
; PRIOR APPLICATION NUMBER: 60/178,965
; PRIOR FILING DATE: 2000-02-01
; NUMBER OF SEQ ID NOS: 1387
; SOFTWARE: CuraPatSeqFormatter Version 0.9
; SEQ ID NO 72
; LENGTH: 1049
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Polypeptide Accession Number YCR011C
US-09-538-092-72

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Query Match 24.9%; Score 835.5; DB 2; Length 1049;  
 Best Local Similarity 30.5%; Pred. No. 4.7e-77;  
 Matches 222; Conservative 134; Mismatches 257; Indels 115; Gaps 18;

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Qy      1 MSSSNVEVFIPVSQGNINGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE 60
      : || : : | : | : | | | | | : ||
Db      355 LGSSKSPIRLP-DEDAVNNFLQNEDDL-----ATLSFENITYSVPSINS-----DGVE 402

Qy      61 KEILSNINGIMKPG-LNAILGPTGGKSLLDVLAARKDPSGLSGDVLINGAPRP-ANFK 118
      : : | : | | | | : | | : | | | | | | : : | | : : | : |
Db      403 ETVLNEISGIVKPGQILAIMGGSGAGKTTLLDILAMKRKTGHVSGSIKVGISMDRKSFS 462

Qy      119 CNSGYVVQDDVVMGTLTVRENLFQSAALRLATMTNHEKNERINRVIQELGLDKVADSKV 178
      | : | | | : | | | | : | | | : : | : | : | : : | :
Db      463 KIIGFVDQDDFLFTLVTFETVLNSALLRLPKALSFEAKKARVYKVLEELRIIDIKDRII 522

Qy      179 GTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSSTANAVLLLLKRMSKQ-GRT 237
      | : | | | | | : | | | | : | | | | | | | | | | | : | | : | |
Db      523 GNEFDRGISGGEKRRVSIACELVTSPLVFLFDEPTSGLDASANNVIECLVRLSSDYNRT 582

Qy      238 IIFSIHQPRYSIFKFLDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNPNADFFLDI 297
      : : | | | | : | | | | | : : | : : : : | | | | | : | |
Db      583 LVLSIHQPRSNIFYLFDKVLVLSKGMVYSGNAKKVSEFLRNEGYICPDNYNIADYLIDI 642

Qy      298 -----INGDSTAV 305
      : |
Db      643 TFEAGPQGKRRIRNISDLEAGTDTNDIDNTIHQTFTSSDGTQREWAHLAAHRDEIRS 702

Qy      306 ALNREEDFKATE----IIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQ-LSGGEKKKK 360
      | | | : | : | | : | : | : | : | : | : | : | :
Db      703 LLRDEEDVEGTGRRGATEIDLNTKLLHDK----YKDSVYYAELSQEIEEVLSEGDEESN 758

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Qy      361 IT--VFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKN 418
      :      :      |      |      :      |      |      |      :      :      :      |      |      :      :      |
Db      759 VLNGDLPTGQQSAGFLQQLSILNSRSFKNMYRNPCKLLGNLYLLTILSLFLGTLYYNVSN 818

Qy      419 DSTGIQNRAGVLFLLTNNQCFSSVSARELVVEKKLFIHEYISGYRVSSYFLGKLLSDL 478
      |      :      |      |      |      |      |      :      :      |      |      |      :      |      |      :      :
Db      819 DISGFQNRMGLEFFILTYFGVFTFTGLSSFALERIIFIKERSNNYSPRAYYISKIMSEV 878

Qy      479 LPMTMLPSIIFTICIVFMLGLKPKADAFVMMFTLMMVAYSASSMALAIAAGQSVVSVAT 538
      :      |      :      |      |      |      |      |      :      :      |      |      |      :      |      |      :
Db      879 VPLRVVPPILLSLIVPMTGLNMKDNAAFCKIGILILFNLGISLEILTIGIIFEDLNNSI 938

Qy      539 LLMTICFVFMIMFSGLLV---NLTTIASWLSWLQYFSIPRYGFTALQHNEF----- 586
      :      :      :      :      :      |      |      |      :      |      |      :      |      |      |      |
Db      939 ILSVLVLLGSLFLSGLFINTKNITNVA--FKYLNKFSVFYYAYESLLINEVKTMLMKERK 996

Qy      587 LGQNF--CPGLNATGNNPCNYATCTGEEYLVKQGI--DLSPWGLWKNHVALACMIVIFLTI 643
      |      |      |      |      |      |      |      |      |      :      :      |      |      |      :
Db      997 YGLNIEVPG-----ATILSTFGFVVQNLVFDIK-----ILALFNVVFLIM 1036

Qy      644 AYLKLLFL 651
      |      |      :
Db      1037 GYLALKWI 1044
  
```

# RESULT 12

US-10-369-493-1520

; Sequence 1520, Application US/10369493

; Patent No. 7314974

; GENERAL INFORMATION:

; APPLICANT: Cao, Yongwei

; APPLICANT: Hinkle, Gregory J.

; APPLICANT: Slater, Steven C.

; APPLICANT: Goldman, Barry S.

; APPLICANT: Chen, Xianfeng

; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF

; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES

; FILE REFERENCE: 38-10(52052)B

; CURRENT APPLICATION NUMBER: US/10/369,493

; CURRENT FILING DATE: 2003-02-28

; PRIOR APPLICATION NUMBER: US 60/360,039

; PRIOR FILING DATE: 2002-02-21

; NUMBER OF SEQ ID NOS: 47374

; SEQ ID NO 1520

; LENGTH: 1049

; TYPE: PRT

; ORGANISM: Saccharomyces cerevisiae

US-10-369-493-1520

Query Match 24.9%; Score 835.5; DB 3; Length 1049;

Best Local Similarity 30.5%; Pred. No. 4.7e-77;

Matches 222; Conservative 134; Mismatches 257; Indels 115; Gaps 18;	
Qy	1 MSSSNVEVFIPVSQNGTINGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVE 60
Db	355 LGSSKSPIRLP-DEDAVNNFLQNEDDL-----ATLSFENITYSVPSINS-----DGVE 402
Qy	61 KEILSNINGIMKPG-LNAILGPTGGGKSSLLDVLAAKDPGSLGSDVLINGAPRP-ANFK 118
Db	403 ETVLNEISGIVKPGQILAIMGGSGAGKTTLLDILAMKRKTGHVSGSIKVNIGISMDRKSFS 462
Qy	119 CNSGYVVQDDVVMGTLTVRENLFSAALRLATMTNHEKNERINRVIQELGLDKVADSKV 178
Db	463 KIIGFVDQDDFLPTLVFETVLNSALLRLPKALSFEAKKARVYKVLEELRIIDIKDRII 522
Qy	179 GTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSSTANAVLLLLKRMSKQ-GRT 237
Db	523 GNEFDRGISGGEKRRVSIACELVTSPVLFLDEPTSGLDASANNVIECLVRLSSDYNRT 582
Qy	238 IIFSIHQPRYSIFKFLDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDI 297
Db	583 LVLSIHQPRSNIFYLFDKLVLSKGEMVYSGNAKKVSEFLRNEGICYPDNYNIADYLDI 642
Qy	298 -----INGDSTAV 305
Db	643 TFEAGPQGKRRIRNISLEAGTDTNDIDNTIHQTTFSSDGTQREWAHLAHRDEIRS 702
Qy	306 ALNREEDFKATE----IIEPSKQDKPLIEKLAEIYVNSSFFYKETKAELHQ-LSGGEKKKK 360
Db	703 LLRDEEDVEGTGRRGATEIDLNTKLLHDK---YKDSVYAEALSQIEEVLSEGDEESN 758
Qy	361 IT--VFKEISYTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKN 418
Db	759 VLNGDLPTGQQSAGFLQQLSILNSRSFKNMYRNPKLLGNLYLTILLSLFLGTLTYNVSN 818
Qy	419 DSTGIQNRAGVLFFLTINQCFSSVASVELFVVEKKLFIHEYISGYRVSSYFLGKLLSDL 478
Db	819 DISGFQNRMGLEFFILTYFGFVFTGLSSFALERIIFIKERSNNYYSPRAYYISKIMSEV 878
Qy	479 LPMTMLPSIIFTICIVFMLGLKPKADAFVVMFTLMMVAYSASSMALAIAAGQSVSVAT 538
Db	879 VPLRVVPPILLSLIVPMTGLNMKDNAFFKCGILILFNLGISLEILTIGIIFEDLNNSI 938
Qy	539 LLMTICFVFMFIFSGLLV---NLTTIASWSLWLYQFSIPRYGFTALQHNEF----- 586
Db	939 ILSVLVLLGSLLSGLFINTKNITNVA--FKYLKNFSVFYYAYESLLINEVKTMLMKERK 996
Qy	587 LGQNF-CPGLNATGNNPCNYATCTGEEYLVKQGI--DLSPWGLWNKHVALACMIVIFLTI 643
Db	997 YGLNIEVPG-----ATILSTFGFVVQNLVFDIK-----ILALFNVVFLIM 1036
Qy	644 AYLKLLFL 651
	::

Db 1037 GYLALKWI 1044

## RESULT 13

US-09-619-049-264

; Sequence 264, Application US/09619049

; Patent No. 7135558

; GENERAL INFORMATION:

; APPLICANT: YANDELL, MARK

; TITLE OF INVENTION: ISOLATED DROSOPHILA PROTEINS ESSENTIAL

; TITLE OF INVENTION: FOR SURVIVAL, NUCLEIC ACID MOLECULES ENCODING ESSENTIAL

; TITLE OF INVENTION: DROSOPHILA PROTEINS, AND USES THEREOF AS INSECTICIDAL

; TITLE OF INVENTION: TARGETS

; FILE REFERENCE: CL000735

; CURRENT APPLICATION NUMBER: US/09/619,049

; CURRENT FILING DATE: 2000-07-18

; PRIOR APPLICATION NUMBER: 60/171,590

; PRIOR FILING DATE: 1999-12-23

; PRIOR APPLICATION NUMBER: 60/171,627

; PRIOR FILING DATE: 1999-12-23

; PRIOR APPLICATION NUMBER: 60/175,763

; PRIOR FILING DATE: 2000-01-12

; PRIOR APPLICATION NUMBER: 60/175,685

; PRIOR FILING DATE: 2000-01-12

; PRIOR APPLICATION NUMBER: 60/186,663

; PRIOR FILING DATE: 2000-03-03

; PRIOR APPLICATION NUMBER: 60/187,241

; PRIOR FILING DATE: 2000-03-03

; NUMBER OF SEQ ID NOS: 1533

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 264

; LENGTH: 687

; TYPE: PRT

; ORGANISM: DROSOPHILA

US-09-619-049-264

Query Match 24.2%; Score 812; DB 3; Length 687;

Best Local Similarity 32.1%; Pred. No. 6.6e-75;

Matches 210; Conservative 134; Mismatches 251; Indels 60; Gaps 17;

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Qy      5 NVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVEKEIL 64
      |:::| |:| | : | | : :| | : | :|
Db      74 NMDIFGAVNQ-----PGSGWRQLVNRTIRGLFCNERHI-----PAPR---KHL 113

Qy      65 SNINGIMKPG-LNAILGPTGGGKSSLLDLVAARKDPSGL----SGDVLINGAPRPA-NFK 118
      |: |: || | ::| :| ||::||: || | |: || :|| | | :
Db      114 KNVCGVAYPGELLAVMGSSGAGKTTLLNALAFR-SPQGIQVSPSGMRLLNQGPVDAKEMQ 172

Qy      119 CNSGYVVQDDVVMGTLTVRENLQFSAALRLATMTNHEKNERINRVIQELGLDKVADSKV 178
      || ||::: :::|| ||:| | | : : : : : :||| | | : :
Db      173 ARCAIVYQDDLFIGSLTAREHLIFQAMVRMPRHLTYRQVRARVDQVIQELSLSKCQHTII 232

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Qy 179 GTQ-FIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSSTANAVLLLLKRMSQKGR 237  
| :|:|:|:|:|:| : | :|:|:| :| | | | :|:|:|:|:|:|:|

Db 233 GVPGRVKGLSGGERKRLAFASEALTDPELLICDEPTSGLDSTFAHSVVQVLKLSQKGGT 292

Qy 238 IIFSIHQPRYSIFKFLDSLTLASGRMLFHGPAQEALGYFESAGYHCEAYNNPADFFLDI 297  
:| :|:|:| :|:|:| :|:| | | | | :| :| :| | | |:|:|:|

Db 293 VILTIHQPSSELFELFDKILLMAEGRVAFGLTGPSEAVDFSSYVGAQCPTNYPADFFYVQV 352

Qy 298 INGDESTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEK 357  
: | | | | : : : : :|:|:| :| :| :|:|:|

Db 353 L-----AVVPGREIESR-----DRIAKICDNFAISKVAR-DMEQLLATKN 391

Qy 358 KKKITVFKEISYT--TSFCHQLRWVSKRSFKNNLGNPQASIAQIIVTVVLGLVIGAIYFG 415  
:| :| :| :| :| :|:|:| :| :| :|:|:|:|:|

Db 392 LEKPLEQEPENGYYTKATWFMQFRAVLWRSWLSVLKEPLLVKVRLIQTMTVAIILGLIFLG 451

Qy 416 LKNDSTGIQNRAGVLFLLTTNQCFSSVSA-VELFVVEKKLFIHEYISGYRVSSYFLGKL 474  
: | :| :| :| :| :| :| :| :| :| :| :|:|:|:|

Db 452 QQLTQVGVMNINGAIFLFLTNMTFQNVFATINVTSELPVFMREARSRLYRCDTYFLGKT 511

Qy 475 LSDLLPMTMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVV 534  
:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|

Db 512 IAE-LPLFLTIVPLVFTAIAYPMIGLRAGVLHFNCLALVTLVANVSTSFYGLISCASSST 570

Qy 535 SVATLLMTICFVMMIFSGLLVNLTTIASWSLWQYFSIPRYGTALQHNEFLGQNFPCPG 594  
|:| :| :| :|:|:|:|:|:|:|:|:|:|:|:|:|:|:|

Db 571 SMALSVGPPVPIIPFLFSGFFLNSGSPVYLVKLSYLSWFRYANEGGLINQWADVE--PG 628

Qy 595 -LNATGNNPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKL 648  
:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|

Db 629 EISCTSSN----TTCPSGKVILETLNFSAADLPLDYVGLAILIVSFRVLAYLAL 679

## RESULT 14

US-10-369-493-3799

; Sequence 3799, Application US/10369493

; Patent No. 7314974

; GENERAL INFORMATION:

; APPLICANT: Cao, Yongwei

; APPLICANT: Hinkle, Gregory J.

; APPLICANT: Slater, Steven C.

; APPLICANT: Goldman, Barry S.

; APPLICANT: Chen, Xianfeng

; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF

; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES

; FILE REFERENCE: 38-10(52052)B

; CURRENT APPLICATION NUMBER: US/10/369,493

; CURRENT FILING DATE: 2003-02-28

; PRIOR APPLICATION NUMBER: US 60/360,039

; PRIOR FILING DATE: 2002-02-21

; NUMBER OF SEQ ID NOS: 47374

; SEQ ID NO 3799





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Qy      293 FFLDIINGDSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKET--KAE- 349
      | : : : | | : | : : | : | : : | :
Db      320 FVMEVASG-----EYGDQNSRLVRVREGMCDSDHKRDLGGDAEVN 360

Qy      350 ---HQLSGGEKK-KKITVKEISYTTSFCH-----QLRWVSKRSFKNLLGNPQASI 396
      | : | | : : : : | : | | : | : | : : : :
Db      361 PFLWHRPSEEVKQTKRLKGLRKDSSSMEGCHSFSASCLTQFCILFKRTFLSIMRDSVLTH 420

Qy      397 AQIIIVTVLGLVIGAIYFGLKNDSTGIQNRAGVLFFLTINQCFSSVSAVEL-FVVEKKLF 455
      : | : : | : | : | : : : | | | | : : : | : | : |
Db      421 LRITSHIGIGLLIGLLYLGIGNEAKKVLNSNGFLFFSMLFLMFAALMPTVLTTPPLEMGVF 480

Qy      456 IHEYISGYRVSSYFLGKLLSDLLPMTMLPSIIIFTCIVYFMLGLKPKADAFFVMMFTL-M 514
      : | : : : | : : : | : : : | : : : | : | : | : |
Db      481 LREHLNYWYSLKAYYLAKTMAD-VPFQIMFPVAYCSIVYWMTS-QPSDAVRVFLFAALGT 538

Qy      515 MVAYSASSMALAIAAGQSVSVATLLMTICFVFMIMFSGLLVNLTTIASWLSWLQYFSIP 574
      | : | | : | | | : : | | : : : : | | : | : | : |
Db      539 MTSLVAQSLGLLIGAASTSLQVATFVGPVTAIPVLLFSGFFVSFDTIPTYLQWMSYISYV 598

Qy      575 RYGFT-----ALQHNEFLGQNFPCPLNATGNNPCNYATCTGEEYLVKQGIDLSPWGLW 627
      | | | | | : : : : | : : : : | : : : : | : : : :
Db      599 RYGFEGVILSIYGLDRED-----LHCDIDETCHFQK---SEAILRE-LDVENAKLY 645

Qy      628 KNHVALACMIVIFLTIAYLKLLF 650
      : : | : | | | :
Db      646 LDFIVLGIFFISRLIAFYFLRY 668

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Search completed: March 3, 2009, 03:49:42

Job time : 208 secs

SCORE 3.0